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**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q77506

Satoshi ARAKAWA

Appln. No. 10/662,328

Group Art Unit: 2878

Confirmation No. 9177

Examiner: Constantine Hannaher

Filed: September 16, 2003

For: RADIATION IMAGE SENSOR AND METHOD OF PRODUCING THE SAME

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed after the later of three months from the application's filing date and the mailing date of the first Office Action on the merits, but before a Final Office Action, Notice of Allowance, or an action that otherwise closes prosecution in the application (whichever is earlier). Because the references were previously submitted and made of record concurrently with the application, no fee is believed to be

INFORMATION DISCLOSURE STATEMENT  
U.S. Appln. No. 10/662,328

Attorney Docket No. Q77506

required. If, however, a fee is due, the fee of \$180.00 under 37 C.F.R. § 1.17 should be charged to deposit account no. 19-4880

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.


Respectfully submitted,

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WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

  
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Date: October 14, 2005

## Complete if Known

Application Number	10/662,328
Confirmation Number	9177
Filing Date	September 16, 2003
First Named Inventor	Satoshi ARAKAWA
Art Unit	2878
Examiner Name	Constantine Hannaher
Attorney Docket Number	Q77506

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

1

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US			
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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		"Comparative Study of PbI <sub>2</sub> and HgI <sub>2</sub> as Direct Detector Materials for High Resolution X-ray Image Sensors"; authors: Robert A. Street et. al.; SPIE (2001), vol. 4320, pp. 1-12	
		"X-ray Detectors for Digital Radiography"; authors: M.J. Yaffe and J.A. Rowlands; Physical Medical Biology; pp. 1-39 - 1997	
		"Experimental Evaluation of a novel CdZnTe flat-panel X-ray Detector for digital radiography and fluoroscopy"; authors: Satoshi Tokuda, et al.; SPIE (2001), vol. 4320, pp. 140-147	
		"Amorphous Silican X-ray Image Sensor"; authors: J. Chabbal, et al.; SPIE (2001), vol. 2708, pp. 499-510	

Examiner Signature

Date Considered

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